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10 MW高温气冷实验堆燃料元件装卸系统研制

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摘要 根据国际上类似系统的设计和运行经验,彻底改进了10MW高温气冷实验堆(HTR 10)燃料元件装卸系统的单列器、碎球分离器、提升器、控制系统,以使系统变得更为简单、可靠。改进后的设备均在全尺寸实验装置上进行过试验。系统的调试试验和初装料运行表明:该系统的性能满足HTR 10的要求。

关键词 [10MW高温气冷实验堆](#) [燃料元件装卸](#) [单列器](#) [碎球分离器](#) [提升器](#) [控制系统](#)

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Development of the Fuel Handling System in 10 MW High Temperature Gas-cooled Reactor

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Abstract According to international experience at design and operation of similar systems, the reducer, the failed fuel separator, the elevator and the control system of the fuel handling system(FHS) in 10 MW high temperature gas cooled reactor(HTR 10) are improved so that the system becomes simpler and more reliable. The improved components are tested in full scale testing facilities. The debugging test and the first loading operation for the FHS indicate that the FHS meets the demands of the HTR 10.

Key words [10 MW high temperature gas-cooled reactor](#) [fuel handling](#) [reducer](#) [failed fuel separator](#) [elevator](#) [control system](#)

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